

**Subject:** Proposed Climate Change Legislation

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Heating a swimming pool exclusively with natural gas or propane is a luxury we can no longer afford.

Attached is a proposed piece of climate change legislation which could be passed statewide by the California Legislature or could be passed in a modified form by a municipality or county for local enactment.

Background: A typical gas pool heater uses around 8 therms per square foot of pool surface per year to maintain a constant temperature of approx. 80 degrees F (this varies depending upon local microclimate conditions.

CO2 emissions from gas pool heaters are around 11 pounds per therm.

Municipal (Olympic) size pools generally have about 12,000 feet of surface area and are typically heated for daily use, year round. A solar pool heating system can reduce 40% to 60% of the annual gas used to heat a year-round pool (the solar contribution is higher for pools that are NOT heated year-round).

In the case of an Olympic size pool, this would equate to between 35,000 to 55,000 therms per year of gas use reduction and CO2 emission reductions between 400,000 to 600,000 pounds per year in this example.

Nitrous oxides emission reductions would be on the order of 400 to 600 pounds, relative to the CO2 reduction.

The reductions possible from smaller-sized gas heated pools would be directly proportional.

There are approx. 67,000 commercial pools (including municipal, governmental, educational, hospitality industry, multi-family, etc) in California. There are approx. 1,000,000 residential pools in California.

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